

Season's
Greetings



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Information is available on the following...

- AMPLIFIERS
- ANALYZERS
- CALORIMETERS
- CARDIAC INSTRUMENTATION
- DIGITAL DATA ACQUISITION SYSTEMS
- TRANSDUCERS
- BLOOD FLOW METERS
- PHOTOMETERS
- SPECTROMETERS
- SPECTROPHOTOMETERS
- COLORIMETERS
- RECORDERS
- ULTRASONIC
- MEDICAL COMPUTERS
- INDICATORS
- INFRARED
- pH METERS
- EEG, ECG, EKG PLETHYSMOGRAPHS
- PHYSIOLOGICAL MONITORING SYSTEMS
- ETC

Typical data sheet in the User's Guide to Life Sciences Instrumentation....

DATE OF DATA:	SHEET DATE:	FUNCT. CODE:
EQUIPMENT NAME & MODEL NO: OSCILLOSCOPE, BIO-AMPLIFIER, STIMULATOR, PB-3 SCOPE		
		
FUNCTIONAL DESCRIPTION: A portable compact oscilloscope, bio-amplifier, and stimulator for teaching and research in the life sciences. The stimulator displays waveforms of the following parameters: ECG, EMG, EEG, NERVE REACTION POTENTIAL, PLANT CELL POTENTIAL, and MUSCLE FIBER POTENTIAL.		
FUNCTIONAL CHARACTERISTICS: Vertical Amplifier Bandwidth: dc to 50kc Oscilloscope: 50mv to 50v/cm Bio-Amplifier in: 10 v/cm to 100mv/cm Rise time: less than 7 sec Impedance: Oscilloscope—1 megohm—single-end Bio-Amplifier: 20 megohms—balanced 10 megohms—single-end Accuracy: ± 5% Time Base Speed: 10 sec/cm to 1 sec/cm Triggering: Internal or external + or -		
Page 1 of 2		

DATE OF DATA:	SHEET DATE:	FUNCT. CODE:
CRT Diameter: 5 inches Phosphor: P2 (Filters avilable) Stimulator Amplitude: .04 to 100v Frequency: 1 to 100 cps Duration: .04 to 32ms Power Requirements: 115v ac, 50-60 cps, 90 watts		
PHYSICAL DESCRIPTION: The instrument is housed in a metal case and provided with a carrying handle. Dimensions: 16 inches by 18 inches by 12 inches Weight: 45 pounds		
MANUFACTURER'S DATA: Philco and Bird, Inc. 6th and Byrd Streets Richmond, Virginia		
COST: Approximately \$725.00		
Page 2 of 2		

User's Guide to Life Sciences Instrumentation



WASHINGTON ENGINEERING SERVICES
COMPANY, INC.

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Kensington, Maryland 20795

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User's Guide to Life Sciences Instrumentation



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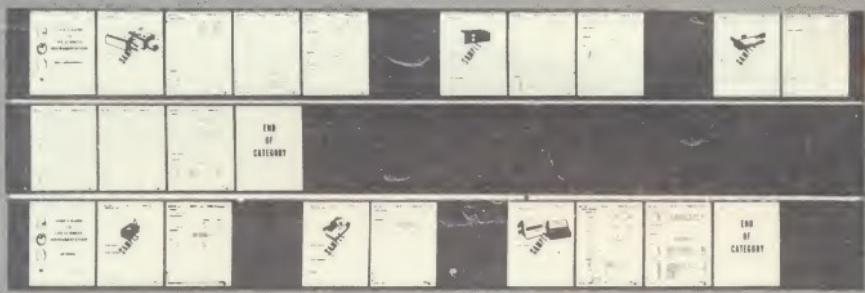
Information is available on the following...

- AMPLIFIERS
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- PHYSIOLOGICAL MONITORING SYSTEMS
- ETC

Typical data sheet in the User's Guide to Life Sciences Instrumentation....

DATE OF DATA:	SHEET DATE:	FUNCT. CODE: <i>NED-100-144</i>
EQUIPMENT NAME & MODEL NO.: OSCILLOSCOPE, BIO-AMPLIFIER, STIMULATOR, PB-3 SCOPE		
		
FUNCTIONAL DESCRIPTION: A portable compact oscilloscope, bio-amplifier, and stimulator for teaching and research in the life sciences. The stimulator displays waveforms of the following parameters: ECG, EMG, EEG, NERVE REACTION POTENTIAL, PLANT CELL POTENTIAL, and MUSCLE FIBER POTENTIAL.		
FUNCTIONAL CHARACTERISTICS: Vertical Amplifier: Bandwidth: dc to 50kc Oscilloscope: 50mv to 50v/cm Bio-Amplifier in: 10 v/cm to 100mv/cm Rise time: less than 7 sec Impedance: Oscilloscope—1 megohm—single-end Bio-Amplifier: 20 megohms—balanced 10 megohms—single-end Accuracy: ± 5% Time Base: Speed: 10 sec/cm to 1 sec/cm Triggering: internal or external + or -		
COPRIGHT JULY 1966		
F-KEN-6001 8 JUNE 66		

DATE OF DATA:	SHEET DATE:	FUNCT. CODE: <i>HM-RB-42</i>
CRT Diameter: 5 inches Phosphor: P7 (filterless viewable) Stimulator Amplitude: .04 to 100v Frequency 1 to 100 cps Duration: .04 to 32ms Power Requirements: 115v ac, 50-60 cps, 90 watts		
PHYSICAL DESCRIPTION: The instrument is housed in a metal case and provided with a carrying handle. Dimensions: 16 inches by 18 inches by 12 inches Weight: 45 pounds		
MANUFACTURER'S DATA: Phipps and Bird, Inc. 6th and Byrd Streets Richmond, Virginia		
COST: Approximately \$725.00		
COPRIGHT JULY 1966		
F-KEN-6001 8 JUNE 66		



The marriage of the engineer and the life scientist has produced a wealth of modern-day wonders such as the pacemaker, heart pumps, and LASER-assisted surgical techniques. Some are still experimental, others are tested and approved.

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-

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USER'S GUIDE

to

LIFE SCIENCES

INSTRUMENTATION



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 - Photographs and physical dimensions.
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SERVICE FOR THE LIFE SCIENTIST

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 - .. allows the instrument buyer to make comparative evaluations of equipment because descriptive technical data is presented in standardized format and language.
 - .. furnishes product performance information in non-technical terms for each instrument.
 - .. features a classification coding and indexing for "families" of instruments. .
 - .. offers a computer-operated retrieval of selected categories of instrument characteristics.

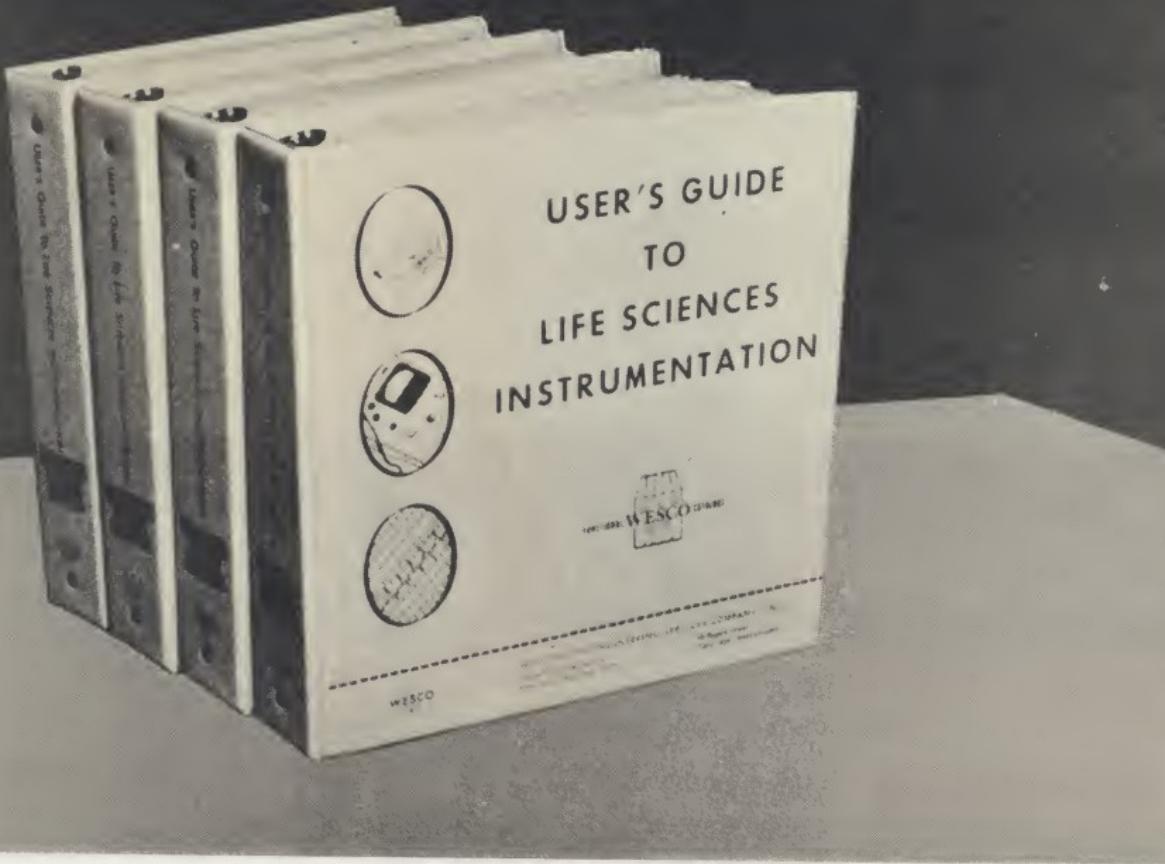
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USERS GUIDE TO LIFE SCIENCES INSTRUMENTATION

DATA SHEET INDEX VOLUME I EDITION I

SEPTEMBER 1966

Functional Code	Instrument Name	Vendor Code
0070-	AMPLIFIER	
0070 010 001	BIOAMPLIFIER, MODEL 121	00032
0070 010 002	BOOSTER AMPLIFIER, SER B-32	00067
0070 010 005	DECADE AMPLIFIER MODEL 110	00029
0070 010 006	TRANSISTOR AMPLIFIER, 48	00029
0070 010 007	HYBRID DEC AMPL 40,A1,45,48	00029
0070 010 008	AMPLIFIER, 108	00029
0070 010 010	CAMBR.MICRO-AMPLIFIER, 1-50	00044
0070 010 012	SYNCHRONOUS AMPLIFIER 510A	00002
0070 010 015	CHARGE AMPLIFIER 624A	00217
0070 010 016	TRANSDUCER AMPLIFIER MOD.1000	00217
0070 010 017	WIDEBAND DC AMPLIFIER 112A	00052
0070 010 018	DIFFERENTIAL DC AMP MOD.114A	00052
0070 010 019	DIFFERENTIAL DC AMP MOD.114C	00052
0070 010 020	WIDEBAND DC AMPLIFIER 121A	00052
0070 010 024	PRESSURE AMPLIFIER, MOD A-101	00138
0070 010 025	NEUROLOGICAL AMP A-103,A-105	00138
0070 010 027	LOG OXIMTR AMPLIF OSA-1B,2B	00085
0070 010 029	CARDIO-TACH 760-3	00111
0080-	ANALYZER	
0080 200 001	PULSE HT ANALYZER MOD 16-347	00027
0080 200 005	AMPLIFIER-ANALYZER 240 240MD	00027
0080 200 011	128 CHAN ANALYZ MOD. ND-110	00179
0171-	BLENDER	
0171 010 001	MICROMIXER MOD.154	00029
0201-	CALIBRATION EQUIPMENT	
0201 010 001	SPECTRAL IRRAD STD L-101 P101	00076
0201 020 002	METER CALIBRATOR M10A-10	00052
0201 020 003	DC VOLTAGE CALIBRATOR MOD.325	00052
0220-	CAMERA	
0220 050 001	IMAGE ORTHICON CAMERAS	00149
0220 050 002	VIDICON CAMERA SYSTEM VC-8	00149
0220 050 003	VIDICON CAMERAS VC 6,7	00149
0220 050 005	VIDICON CAMERA VC-4	00149
0220 050 006	VIDICON CAMERA VC-1	00149

0260-	CARDIOTACHOMETER	
0260 010 002	CARDIOTACHOMETER KT-1	00085
0260 010 003	HEART RATE METER AL-1	00085
0270-	CENTRIFUGE	
0270 010 002	MICRO CENTRIFUGE MOD 152	00029
0280-	CHAMBER	
0280 012 001	STANDARD ION CHAMBER	00027
0290-	CHROMATOGRAPH	
0290 010 001	WCLID CHROMATOCABS A-125	00255
0290 010 002	WCLID CHROMATOCABS A-300	00255
0290 010 003	WCLID CHROMATOCABS C-305	00255
0350-	CLEANER	
0350 010 001	ULTRASON CLEAN ME 18,5,5,1,5	00160
0363-	COLLECTOR, EQUIPMENT	
0363 010 001	AUTO FRACTION COLLECTOR 1205	00255
0370-	COLORIMETER	
0370 010 002	COLORIMETER, NEPHO MOD 9	00053
0370 010 003	SPECTRO-COLORIMETER, MOD 151	00029
0380-	COMPUTER	
0380 011 001	COMP OXY COMSUMP OCC-2500	00238
0380 020 002	GEN PUR DIGI COMPUTER 810	00229
0380 030 001	ENHANCETRON 1024 ND-800	00179
0380 030 002	COMPUTER AVE TRANS CAT 400B	00239
0380 030 003	COMPUTER AVE TRANS CAT 1000	00239
0400-	CONVERTER	
0400 010 001	NUCLEAR DATA MODS 161F10&F12	00179
0410-	COUNTER	
0410 010 001	CELL COUNTER MODEL 75	00208
0410 050 004	WINDOW FLOW COUNTER WFC-167B	00027
0410 050 005	GAS FLOW COUNTER FC-110	00027
0410 050 011	LINEAR LOG RATEMETER MOD 435	00027
0410 050 012	RATEMETER DEM-MONIT 16-434	00027
0410 060 001	LIQ SCINTILLATION DET 24-376	00027
0410 080 001	BINARY COUNTER BC-1	00041
0505-	DESALTER	
0505 010 001	UCLID ELEC DESALTER 01930	00255
0590-	DOSIMETER	
0590 010 002	X-RAY DOS HAND MON 11-030	00027
0640-	ELECTROCARDIOGRAPH -ECG-	
0640 010 001	ELECTROCARDIOGRAPH COMPUT-EK	00054
0640 010 002	ELECTROCARD VERSA-SCRIBE 1-70	00045
0640 010 003	VISO-CARDIETTE 500	00208

0680-	ELECTRODEPOSITION UNIT	
0680 010 001	BAIRD-ATOMIC MOD 16-279,294	00027
0690-	ELECTROENCEPHALOGRAPH	
0690 010 001	EEG OFFNER TYPE TD	00029
0690 010 002	EEG OFFNER TYPE T, TC	00029
0740-	ELECTROMETER	
0740 010 002	DC AMPLIFIER 11-153	00027
0790-	ELECTROSHOCK APPARATUS	
0790 010 001	SHOCK GENERATOR SG-002	00041
0790 010 002	SHOCK GENERATOR SCRAMBLER SGS-001	00041
0880-	FLOWMETER	
0880 010 002	ELECTROMAG MLTIFLO MTR M-4000	00226
0880 020 002	ELECTROMAGNETIC FLOWMETER	00085
0890-	FLUOROMETER	
0890 010 001	FLUOROMETER, RATIO	00029
0921-	GALVANOMETER	
0921 010 001	ELEC GALVANOMTR & AMP 204A	00052
1160-	INJECTOR, EQUIPMENT	
1160 010 001	INJECT-A-MATIC	00206
1160 020 001	PORTABLE INJECTOR IU-5	00085
1180-	INTERFEROMETER	
1180 010 001	SCANNING INTERFEROMETER F-103	00076
1191-	ISOLATOR	
1191 010 001	ISOLATOR, TYPE ISA	00035
1300-	LASER	
1300 010 001	HEL-NEON GAS LASER, LAS-101	00076
1300 010 002	GAS LASER, FLD USE,	00076
1530-	METER	
1530 040 007	PH METER-EXPANDED SCALE MODIO	00060
1530 040 008	PH METER, MODEL 12	00060
1530 040 009	PH METER, MODEL 7	00060
1530 040 010	PORTABLE PH METER 37A	00053
1530 040 011	EXPAND SCALE PH METER 38	00053
1530 040 012	PH METER MODEL 39	00053
1530 040 013	METRION PH METER, MOD. 111 & 1V	00053
1530 040 015	PH CONTROLLER 25-50PM	00147
1530 041 001	BLOOD PH SYSTEM 12-BRS	00060
1530 070 002	TITRION AUTO. TITRATOR 32-000	00053
1660-	MONITOR	
1660 010 001	EKG DUO-SCANS 3720, 3730, 5020	00047
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1660 010 003	CARDIAC ARREST CONTROL 3000	00047

1660 020 001	BLOOD PRESS MONITOR BPM-101-B	00238
1660 030 001	RADIATION MONITR PRM1,2,15,25	00277
1660 030 002	CHIRPEE RAD MON 4-500	00027
1660 030 003	SINGLE HAND MON 4-607	00027
1660 030 004	PORTAL MONITOR 4-600	00027
1660 030 005	PORTABLE ALPHA MONITOR 4-151	00027
1660 030 006	LAB MONITOR MODEL 4-234	00027
1660 030 007	PORTABLE TRITIUM MONIT 4-762	00027
1660 030 009	TRITIUM MONITOR 4-492	00027
1660 030 010	SURVEY METERS 4-122	00027
1660 030 011	CONTAMINATION MON 4-154	00027
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2070 010 001	OSCILLOGRAPH DATA REC 5-124	00056
2090-	OSCILLOSCOPE	
2090 010 002	VISO-SCOPE MODEL 769A	00208
2090 010 003	VISO-SCOPE 780-6	00111
2090 010 004	PHYSIO-SCOPE MODEL D100	00138
2090 010 005	OSCILLOSCOPE MULTI-CHANN DF-1	00138
2090 010 006	MONITOR OSCILLOSCOPE SO-1A	00085
2090 010 007	MONITOR OSCILLOSCOPE SO-6A	00085
2090 010 008	MONITOR OSCILLOSCOPE SO-8	00085
2090 010 009	DC-4MHZ OSCILLOSCOPE,MOD.310A	00240
2090 010 010	DC-10MHZ-9-KY OSCIL,317,RM317	00240
2090 010 011	DC-450KHZ OSCILLOSC,503,RM503	00240
2090 010 012	100 MUV/CM DUAL BE,502,RM502A	00240
2090 010 013	DC-450KHZ OSCILLOSC,504,RM504	00240
2090 010 014	DC-15MHZ OSCILLOS,515A,RM515A	00240
2090 010 015	DC-15MHZ DUAL TRACE OSCIL,515	00240
2090 010 016	T.V.OSCILLOSCOPE, TYPE 524 AD	00240
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2140-	PACEMAKER CARDIAC	
2140 010 001	CARDIAC PACEMAKER SYS 5860	00157
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2140 010 003	ADJ RATE/CIRCUIT 5870	00157
2140 010 004	CARDIAC PACE-ETTE	00157
2140 010 005	EXTERN/INTERNAL PACEMAKER 2018	00157
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2321 010 002	PHOTOMULTIPLIER ASSY PM 102	00076
2341-	PHOTROMETER	
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2374-	PIPETTE	
2374 010 001	AUTO-SPENSER	00255
2460-	POTENTIOMETER	
2460 010 001	DIGITAL VOLTMETER DVM-2	00029

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2470 010 001	LASER PWR SUPPLY MOD P-102	00076
2470 010 003	28 VDC PWR SUPPLY PS-002	00041
2470 010 004	12 VDC REG PWR SUPPLY PS-001	00041
2470 010 005	POWER SUPPLY PS-12	00041
2470 010 006	HIGH VOLTAGE SUPPLY MOD 365	00027
2470 010 007	SCINTILLATION HIGHVOLT 345	00027
2470 010 008	ABSOLUTE DC PWR SUPPLIES	00052
2470 010 009	DC VOLT STAND&NULL V-MTR 301	00052
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2613 010 001	DERMO-THERM RM-1	00203
2670-	RADIOMETER	
2670 010 001	PROBE STAND	00075
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2853-	SAMPLER	
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2860 020 001	BRKLINE METAB SCALE MOD 100	00040
2860 030 001	BRKLINE METAB SCALE MOD 80	00040
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2865 010 001	GENERAL PURPOSE SCALER 146	00027
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2870 001 002	MASTER SCANNER 453M	00052
2870 010 003	SCANOGRAM 2 4 PI 1-160	00027
2870 010 007	MINISCANNER 1-260, 1-270	00027
2870 010 008	RADIOCHROM SCANNER 1-239	00027
2870 010 009	RADIOCHROMATOGRAM SCANNER	00027
2870 010 010	DELUXE SCANNER 1-363	00027
2870 020 001	ANIMAL BODY DETECTOR MOD R-4	00075
2960-	SPECTROMETER	
2960 010 004	LAB WAVE-LENGTH SPECTROMETER	00028
2960 015 001	DUAL SPECTROMETER 560	00027
2960 070 001	INTERFEROMETER SPECTROMTR 200	00038
2960 070 002	FAR INFRA-RED SPECTRO FIR-64	00002
2980-	SPECTROPHOTOMETER	
2980 010 001	HITACHI-PERKINS-ELMER MOD 139	00053
2980 010 003	SPECTROPHOTOMETER MOD 6A,C,&D	00053
2980 010 006	SPECTROPHOTOMETER DU-2,M,1	00029
2980 010 008	INFRARED SPECTROPHOTOM,IR-102	00029

2980 010 011	INFRARED SPECTRO,IR-4,9,11,12	00029
2980 010 012	RATIO RECOR-DK1A,DK2A,UVDK	00029
2980 010 013	SPECTROPHOTOMETER, MOD B	00029
2980 010 014	SPECTROPHOTOMETER, MOD 200	00097
2980 010 015	SPECTROPHOTOMETER, MOD 2000	00097
2980 010 016	MICRO-SAMPLE MOD 300	00097
2980 010 017	FLUOR SPECTROPHOTOMETER SF-1	00027
2980 010 018	SPECTROPHOTOMETER MOD 240	00097
2980 010 021	UV VIS. SPECTROPHOTOMETER 101	00053
3000-	SPECTROSCOPE	
3000 010 001	SPECTR-A-PORT	00206
3124-	STANDARDS EQUIPMENT	
3124 008 001	THERM TRANSFER STANDARD 666	00052
3124 010 001	DC VOLTAGE STANDARD 303B	00052
3190-	STIMULATOR	
3190 020 001	CONST-CURRENT STIMULATOR 7150	00178
3250-	SYSTEM DATA ACQUISITION	
3250 010 011	DIGITAL COMPARATOR 442	00052
3250 010 012	DIGITAL TRANSLATOR 467	00052
3250 010 013	BCD READOUT 475	00052
3250 010 018	BASIC DATALOGGING SYS 1510	00081
3250 010 019	BASIC DATALOGGING SYS 1530	00081
3250 010 020	BASIC DVM/PRINT SYSTEM 1520	00081
3250 020 001	CARDIAC ACQUISITION CONS 6509	00054
3290-	TELELECTROCARDIOGRAPH	
3290 010 001	TELELECTROCARDIOGRAPH TL1-1	00044
3290 010 002	ECG TELEMETRY 16085, 16080	00157
3300-	TELEMETRY SYSTEM EQUIP	
3300 010 005	TELEMETRY,SYS EQ,1 CHAN	00029
3471-	THYROID TEST EQUIP	
3471 010 001	THYROGRAPH	00054
3480-	TIMER	
3480 020 001	PRECISION CLOCK MV-45	00041
3480 020 004	DUAL PUR. TIMER,ELEC.SER 960	00027
3480 020 005	TIMER, MODEL CS 905	00027
3600-	TRANSDUCER	
3600 010 001	BLOOD TRANSDUCER SER 100 500	00080
3600 010 002	BLOOD TRANSDUCER SER 200A	00080
3600 010 003	EXTR CORP BLOOD TRNSD-300,600	00080
3600 010 004	EXTR CORP BLOOD TRNSD-300P	00080
3600 010 005	BLOOD FLOW TRNSD 400,400R	00080
3600 041 001	TRANSDUCER ANG TO VOLT P-1	00152
3600 050 001	IMPEDANCE TRANSDUCER 991	00032
3600 090 006	VARIDUCER,PRES TRAN V25,MC25	00217
3600 090 008	TRANSDUCERS 200,201,202,203	00253

WASHINGTON ENGINEERING SERVICES COMPANY, INC.

White Flint Science Park

Kensington, Maryland 20795



Phone 949-3900

Dear Sir:

Volume 1 of the first edition of the "User's Guide to Life Sciences Instrumentation" has been published and its reception has been excellent. Our subscribers include hospitals, consulting firms, government research activities, libraries, and manufacturers.

An edition of the Guide is published each year and is issued in four volumes, one each in September, December, March, and June. The September 1966 volume contains over 250 instrument descriptions in over 80 different major functional categories. Each quarterly issue will contain an additional 250 or more instrument descriptions and a cumulative index. The Guide features standardized format for each instrument described, tab dividers for each major category, and hard cover vinyl loose-leaf binders.

The enclosed material will provide you with additional information regarding the contents, format, and subscription costs.

We believe you will find the Guide a valuable information source, and would appreciate your consideration in becoming a subscriber.

Should you have further questions about the Guide, please do not hesitate to contact us.

Very truly yours,

A handwritten signature in black ink that reads "Herman Levine".

Herman Levine
Assistant Director for
Special Program Development

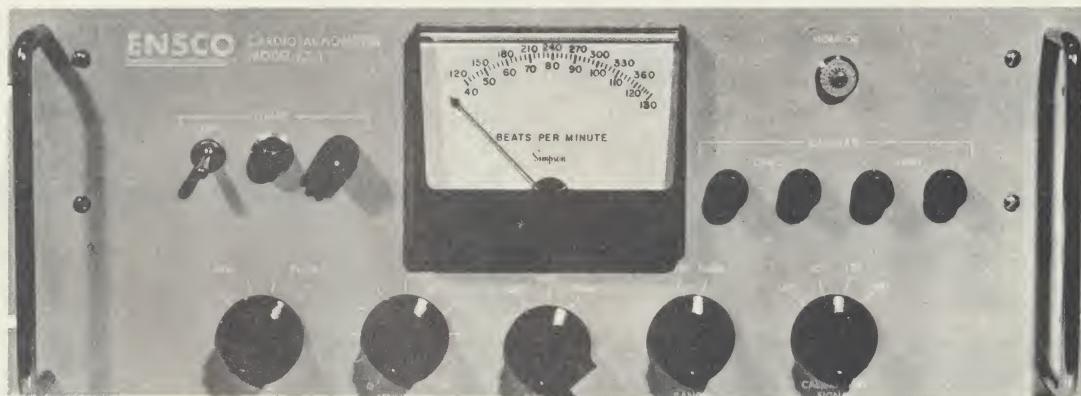
DATE OF DATA: 8-66

SHEET DATE: 9-27-66

FUNCTIONAL CODE: 0260-010-002

EQUIPMENT NAME & MODEL NO:

CARDIOTACHOMETER, MODEL KT-1

**FUNCTIONAL DESCRIPTION:**

The Cardiotachometer, Model KT-1, is designed to measure both instantaneous and average heart rate. The heart rate is displayed on a 4-1/2-inch wide view meter mounted on the front panel and is also available as an analog voltage for recording.

Two ranges are provided enabling the KT-1 to be used with most animals as well as humans. The input signal can be obtained from either a standard EKG harness or a pulse pressure pick-up probe.

The KT-1 is a hybrid instrument which employs both vacuum tubes and transistors in order to utilize the best characteristics of each.

FUNCTIONAL CHARACTERISTICS:

Input Pickup:

Standard EKG harness or digital pulse pressure pickup.

Output Range:

40 to 130 and 120 to 360 beats/min.

Output Signals:

Analog heart rate and EKG or pulse pickup output.

DATE OF DATA: 8-66

SHEET DATE: 9-27-66

FUNCTIONAL CODE: 0260-010-002

FUNCTIONAL CHARACTERISTICS: (Continued)

Calibration Signal: 40, 120, and 360 pulses/min.

Power Requirements: 105 to 125 V ac, 60 cps.

ACCESSORIES:

Pulse Pickup

PHYSICAL DESCRIPTION:

Size (in.): Standard 7 x 19 x 15 D (rack mount panel).

DATA SOURCE:

Enesco, Inc.
Data Sheet

MANUFACTURER:

ENSCO, INC.
3100 Eldredge Street
Salt Lake City, Utah 84115

Telephone: (801) 485-9162

PRICE:

Model KT-1 \$650.00